	DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD		FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
EEE	DDD DDD	DDD	FFF
ĔĔĒ	DDD	DDD	FFF
EEE	DDD DDD	DDD	FFF FFF
EEE	DDD	DDD	FFF
ÉÉÉÉEEEEEEEE	DDD DDD	DDD	FFFFFFFFFFF
EEEEEEEEEEE	DDD DDD	DDD	FFFFFFFFFF FFF
ÉEÉ	DDD	DDD	FFF
EEE	DDD DDD	DDD	FFF FFF
ĒĒĒ	DDD	DDD	FFF
EEE EEEEEEEEEEEEEEE		DDD	FFF FFF
EEEEEEEEEEEEE			FFF FFF

MM MMMM MMMM MM MM MM MM MM MM MM MM

.

DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	RRRRRRR RRRRRRR RR RR RR RR RR RR RR RR RRRRRR	MM MM MMMM MM MM MM MM MM MM MM MM
	\$			

; ++

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```
.TITLE EDF$TERM - MACRO-32 SUPPORT ROUTINES FOR EDF. .IDENT 'V04-000'
```

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20 ** 2123 ** 22345 ** 22782789 : FACILITY: VAX/VMS FDL EDITOR (EDF facility)

: ABSTRACT: MACRO-32 subroutines for EDF

ENVIRONMENT: NATIVE/USER MODE

: AUTHOR: Ken f. Henderson Jr.

: CREATION DATE: 7-Apr-1981

MODIFIED BY:

V03-002 KFH0002 Ken Henderson 9 Aug 1983 Remove clear of wrap bit.

V03-001 KFH0001 14 Apr 1983 Ken Henderson

Return EDF\$_DEVCLASS in RO if not terminal, rather than calling LIB\$STOP. Also, clear TT\$M_WRAP bit in the SETMODE.

0000 46 : --0000 0000

323335

36 37

38 39

```
- MACRO-32 SUPPORT ROUTINES FOR EDF.
EDF$TERM
                                                                                  16-SEP-1984 00:32:14
5-SEP-1984 00:24:54
                                                                                                           VAX/VMS Macro V04-00
                                                                                                                                                  (2)
                                                                                                                                           Page
V04-000
                                                                                                           LEDF.SRCJEDFTERM.MAR; 1
                                                  0000
                                     0000000
                                                                        .PSECT
                                                                                          EDF$TERM_DATABASE,LONG
                                          0000
                                                        This is the static database for the module.
                                                      ; It contains the necessary data blocks for the QIO services.
                                                   61
62
63
                                          0000
                                                   64
65 TTY:
                                          0000
4E 49 24 53 59 53 00000008'010E0000'
                                          0000
                                                                        .ASCID
                                                                                          /SYS$INPUT:/
                                          000E
                                          0012
                                                   66
67 TTYCHN:
                              00000014
00000015
                                                                        .BLKW
                                          0014
                                                   68 TTYIN:
                                                                        .BLKB
                                                   69
70
                                          0015
                                                                        .ALIGN
                                                                                          LONG
                                                   71
72
73
                              00000020
0000001A
                                                      TTYIOSB:
                                                                         .BLKW
                                                                                          = TTYIOSB + 2
                                                                        TERMSPEED
                              0000038
                                                   75
                                                      EDF $OLDMODE ::
                                                                         .BLKW
                                                   76
77
78
                              00000021
                                                                        TERMNUM
                                                                                          = EDF$OLDMODE + 1
                              00000024
                                                                        TERMCHR
                                                                                          = EDFSOLDMODE + 4
                              00000028
                                                                        EXTRABITS
                                                                                          = EDF$OLDMODE + 8
                              00000050
0000003C
                                                      EDF$NEWMODE::
                                                                         .BLKW
                                                                        NEWCHR
                                                                                          - EDF$NEWMODE + 4
                              000003F
                                                                        TERMPAGE
                                                                                          = EDF$NEWMODE + 7
                                          0050
                              00000C4
                                                                        .BLKB
                                                                                          DIB$K_LENGTH DIB$K_LENGTH, 0
                                                   84 DIB:
                             0000 0074
                                                   85 DIB_DESC:
                                                                        .WORD
                              00000501
                                                   86
87
                                          8000
                                                                        .ADDRESS
                                                                                          DIB
                                          0000
                                                   88
                                                                                          LONG
                                                                        .ALIGN
                                          0000
                                                      EXITBLOCK:
                                                                                                              exit control block
                                                   91
92
93
                               00000000
                                                                        .LONG
                                                                                                              system uses this for pointer
                                                                                                              address of exit handler (to reset
                               000001181
                                          00D0
                                                                        .ADDRESS
                                                                                          EDF$RESET_TERM
                                                                        .LONG
                               00000001
                                          00D4
                                                                                                              number of args for handler
                                                   94
                               000000DC'
                                          8000
                                                                        .ADDRESS
                                                                                          STATUS
                                                                                                              address to receive status code
                               000000E0
                                          00DC
                                                   95 STATUS:
                                                                        .BLKL
                                                                                                              status code
```

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```
M 12
EDF STERM
                                                                                           16-SEP-1984 00:32:14
5-SEP-1984 00:24:54
                                        - MACRO-32 SUPPORT ROUTINES FOR EDF.
                                                                                                                       VAX/VMS Macro V04-00
                                                                                                                                                          Page
                                                                                                                                                                  (3)
V04-000
                                                                                                                       LEDF.SRCJEDFTERM.MAR: 1
                                         00000000
                                                                      .PSECT
                                                                                          EDF$TERM_CODE,LONG
                                                        98
99
                                              0000
                                                            ; ++
                                                              EDF$TERM_SETUP -- Set up the terminal and get its speed.
                                              0000
                                                       100
                                              0000
                                                       101
                                                       102
                                              0000
                                                              This routine queries the terminal driver to see what's the
                                              0000
                                                              speed of the terminal we're talking to.
                                              0000
                                                       104
                                                             ; It also checks to make sure that indeed the input is a terminal,
                                                            and it also sets the page length to 16 for hardcopy terminals. It also declares an exit handler and sets up a control/C AST.
                                              0000
                                                       105
                                                       106
                                              0000
                                              0000
                                                       108
                                              0000
                                                              CALLING SEQUENCE:
                                              ŎŎŎŎ
                                                       110
                                              0000
                                                            : TERMINAL_SPEED
                                                                                          := EDF$TERM_SETUP;
                                              0000
                                                       111
                                                       112
113
                                              0000
                                              0000
                                                       114
                                              0000
                                       0000
                                              0000
                                                                      .ENTRY EDFSTERM_SETUP,^M<>
                                              0002
                                                       116
                                              0002
                                                                      $ASSIGN_S -
                                                                                DEVNAM = TTY,-
                                              0002
                                                       118
                                                       119
                                                                                CHAN
                                                                                          = TTYCHN
                                                      119
120
121
122
123
124 7$:
125
126
127
128
129
130 9$:
131
                                              0017
                                              0017
001A
001D
001D
                               03 50
                                         E8
                                                                      BLBS
                                                                                RO.75
                                00CA
                                                                      BRW
                                                                                ERROR
                                                                      SGETCHN_S -
                                                                                CHAN
                                                                                          = TTYCHN,-
                                              001D
                                                                                PRIBUF
                                                                                         = DIB_DESC
                                              0037
                                              0037
003A
003D
0045
                               03 50
                                         E8
31
91
                                                                      BLBS
                                                                                RO.95
                                AAOO
                                                                      BRW
                                                                                ERROR
                        00000054'EF
             42 8F
                                                                      CMPB
                                                                                DIB+DIB$B_DEVCLASS, #DC$_TERM
                                   0A
                                                                      BEQL
                                                                                PAST
                                                       132
133
                                              0047
                                         D0
31
                 50
                        0000000°8F
                                              0047
                                                                      MOVL
                                                                                                                        : INDICATE IT'S NOT A TERMINAL
                                                                                #EDF$_DEVCLASS,RO
                                0095
                                                       134
                                              004E
                                                                      BRW
                                                                                OUT
                                              0051
                                                       135
                                                                      $QIOW_S
                                              0051
                                                       136 PAST:
                                                       137
138
                                              0051
                                                                                CHAN
                                                                                          = TTYCHN,-
                                                                                          = #10$ SENSEMODE,-
= TTYIOSB,-
                                              0051
                                                                                FUNC
                                                       139
                                              0051
                                                                                IOSB
                                                       140
141
142
143
                                              0051
0078
                                                                                          = EDF$OLDMODE
      00000038'EF
00000040'EF
                        00000020'EF
00000028'EF
                                         7D
7D
7D
                                              0078
                                                                                EDFSOLDMODE.
                                                                                                                        ; COPY EDFSOLDMODE INTO EDFSNEWMODE
                                                                      MOVQ
                                                                                                    EDF$NEWMODE
                                                                                EDF$OLDMODE+8, EDF$NEWMODE+8
EDF$OLDMODE+16, EDF$NEWMODE+16
                                              0083
                                                                      DVOM
                                                       144
      00000048'EF
                        00000030'EF
                                              008E
                                                                      MOVQ
                                              0099
                                   0C
07
                                         E0
                                                       146
                 00000024'EF
                                              0099
                                                                      BBS
                                                                                                    TERMCHR,-
                                                                                                                        : SKIP DOWN IF IT'S A SCOPE
                                                                                #TT$V_SCOPE,
                                              00A0
                                                                                                    VIDEO
                                              00A1
                                                       148
                                         90
                 0000003f 'EF
                                   10
                                              00A1
                                                       149
                                                                      MOVB
                                                                                #16.
                                                                                                    TERMPAGE
                                                                                                                          SET PAGE = 16 LINES
                                                       150
151
                                              8A00
                                                                                                                        ; HARDCOPY TERMINALS ARE SPECIAL
                                              8A00
                                                       152
153
                                              8A00
                                                            VIDEO:
                                              8A00
                                                                      $QIOW_S -
```

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EDF\$TERM V04-000		- MACRO-32	SUPPORT ROU	TINES FOR	N 12 EDF.	16-SEP-1984 00:32:14 5-SEP-1984 00:24:54	VAX/VMS Macro V04-00 [EDF.SRC]EDFTERM.MAR;1	Page	4 (3)
		8A00 8A00 8A00	154 155 156 157 158 159 160 161 162		CHAN FUNC P1	= TTYCHN,- = #IO\$ SETMODE,- = EDF\$NEWMODE			
		00CB	158	\$DCLEXH	_\$	DESBLK=EXITBLOCK	; DECLARE THE EXIT HANDLER		
	000000F0'EF 00	FB 0008	160	CALLS	# 0,	EDF\$CTRLCAST	; SETUP ^C AST ROUTINE		
	50 0000001A'EF	00A8 00A8 00A8 00CB 00CB 00D8 7 00DF 00DF 00E7 00E7	163 OUT: 164	MOVZBL RET	TERMSPE	ED, RO			
		00E7	165 ERROR: 166	SEXIT_S	R0				

ED VO

```
- MACRO-32 SUPPORT ROUTINES FOR EDF.
                                                    16-SEP-1984 00:32:14
5-SEP-1984 00:24:54
                                                                               VAX/VMS Macro V04-00 [EDF.SRC]EDFTERM.MAR;1
                                                                                                                          5
(4)
                                                                                                                   Page
       EDF$CTRLCAST -- Set up ^C ast.
                       This routine sets up another ^C ast.
                       CALLING SEQUENCE:
                       EDF$CTRLCAST;
0000
                                        EDFSCTRLCAST, ^M<>
                               .ENTRY
                              $QIOW_S
                                        CHAN
                                                                                 ; SET UP THE CONTROL/C AST
                                                  = TTYCHN,-
= #IO$_SETMODE!IO$M_CTRLCAST,-
= CTRLCAST_ROUTINE
       00F2
00F2
0117
                                         FUNC
  04
       0117
                               RET
```

EDF\$TERM V04-000

EC V(

EDF \$TERM V04-000

Page 7 (6)

```
0145 212 : ++
0145 213 : CTRLCAST_ROUTINE -- Catch Control/C when typed by the user.
0145 215 : This routine does a $Y$$EXIT to call the exit handler before leaving.
0145 216 : CALLING SEQUENCE:
0145 219 : Called as an AST routine
0145 220 : called as an AST routine
0145 221 : 0145 222 : --
0146 0147 225 0147 225 0147 225 0147 225 0147 225 0147 225 0147 226 0150 227 0150 228 RET ; invoke image rundown, which calls the exit handler
04 0150 228 RET ; never gets here - we hope!
0151 230 .END
```

```
E 13
EDFSTERM
                                     - MACRO-32 SUPPORT ROUTINES FOR EDF.
                                                                                     16-SEP-1984 00:32:14 VAX/VMS Macro V04-00 
5-SEP-1984 00:24:54 [EDF.SRC]EDFTERM.MAR;1
                                                                                                                                               Page
Symbol table
                                                                                                                                                      (6)
                                     = 00000001
$$11
                                    00000145 RG
= 00000042
00000050 R
CTRLCAST_ROUTINE
                                                        03
DCS_TERM DIB
                                                        02
DIBSB_DEVCLASS
DIBSK_LENGTH
DIB_DESC
EDFSCTRLCAST
                                    = 00000004
                                    = 00000074
                                       000000C4 R
                                                        023023333
03003333
                                       000000FO RG
EDF SNEWMODE
                                       00000038 RG
                                       00000020 RG
EDF SOLDMODE
EDF$RESET_SCROLL
EDF$RESET_TERM
                                       *****
                                       00000118 RG
EDFSTERM SETUP
                                       00000000 RG
EDFS_DEVCLASS
                                                        Ŏ3
                                       *****
ERROR
                                                        ŎŠ
                                       000000E7 R
                                                        02
EXITBLOCK
                                       000000CC R
                                    = 00000028 R
EXTRABITS
IOSM_CTRLCAST
                                    = 00000100
IOS SENSEMODE
                                    = 00000027
                                    = 00000023
                                                        02
03
NEWCHR
                                    = 0000003C R
TUU
                                       000000E6 R
                                                        03
                                       00000051 R
PAST
STATUS
                                                        00000DC R
SYS$ASSIGN
                                       *****
SYS$DCLEXH
                                       *****
SYSSEXIT
                                       ******
                                                  GX
                                       *****
SYS SGETCHN
                                                  GX
SYSSQIOU
                                       ******
                                    = 00000024 R
TERMCHR
                                    = 00000021 R
TERMNUM
TERMPAGE
                                    = 0000003F R
TERMSPEED
                                    = 0000001A R
TT$V_SCOPE
                                    = 00000000
TTY
                                                        02
02
02
03
                                       00000000 R
TTYCHN
                                       00000012 R
TTYIN
                                       00000014 R
TTYIOSB
                                       00000018 R
                                       000000A8 R
VIDEO
                                                          Psect synopsis!
PSECT name
                                                             PSECT No.
                                                                         Attributes
                                      Allocation
   ABS
                                      00000000
                                                       0.)
                                                            00 (
                                                                   0.)
                                                                          NOPIC
                                                                                                        LCL NOSHR NOEXE NORD
                                                                                                                                 NOWRT NOVEC BYTE
                                                                                          CON
                                                                                                 ABS
                                                                                                 ABS
                                                                                                                     EXE
SABSS
                                      00000000
                                                             01
                                                                          NOPIC
                                                                                   USR
                                                                                          CON
                                                                                                        LCL NOSHR
                                                                                                                            RD
                                                                                                                                   WRT NOVEC BYTE
                                                                (
                                                                   1.)
                                                                    2.)
3.)
EDFSTERM DATABASE
                                                     224.)
337.)
                                                             02
                                                                                                                                   WRT NOVEC LONG
                                      000000E0
                                                                          NOPIC
                                                                                                 REL
                                                                                   USR
                                                                                          CON
                                                                                                        LCL NOSHR
                                                                                                                            RD
                                      00000151
                                                                          NOPIC
                                                                                                        LCL NOSHR
                                                                                                                                   WRT NOVEC LONG
EDFSTERM_CODE
                                                                                   USR
                                                                                          CON
                                                                                                 REL
                                                                                                                            RD
```

16-SEP-1984 00:32:14 VAX/VMS Macro V04-00 5-SEP-1984 00:24:54 [EDF.SRC]EDFTERM.MAR;1

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Performance indicators !

Phase	Page faults	CPU Time	Elapsed Time
Initialization	33	00:00:00.13	00:00:00.72
Command processing Pass 1	123	00:00:00.41	00:00:01.96
	318	00:00:10.75	00:00:26.42
Symbol table sort Pass 2	0	00:00:01.91	00:00:04.11
	56	00:00:01.90	00:00:03.96
Symbol table output	6	00:00:00.08	00:00:00.08
Psect synopsis output		00:00:00.03	00:00:00.03
Cross-reference output Assembler run totals	541	00:00:00.00	00:00:00.00 00:00:37.29

The working set limit was 1200 pages.
61132 bytes (120 pages) of virtual memory were used to buffer the intermediate code.
There were 70 pages of symbol table space allocated to hold 1211 non-local and 2 local symbols.
230 source lines were read in Pass 1, producing 27 object records in Pass 2.
22 pages of virtual memory were used to define 21 macros.

! Macro library statistics !

Macro library name

Macros defined

_\$255\$DUA28:[SYSLIB]STARLET.MLB;2

EDFSTERM VAX-11 Macro Run Statistics

18

1350 GETS were required to define 18 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:EDFTERM/OBJ=OBJ\$:EDFTERM MSRC\$:EDFTERM/UPDATE=(ENH\$:EDFTERM)

C

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